

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Original) A digital headend upconversion system, comprising:
 - (a) means for upward shifting channel frequencies of a set of digital baseband television signals to produce a set of digital upconverted signals; and
 - (b) means for converting the digital up-converted signals to analog signals.
2. (Original) The digital headend upconversion system of claim 1, further comprising means for demultiplexing the digital baseband television signal, wherein the output of said demultiplexing means is coupled to the input of said upward shifting channel frequency means.
3. (Original) The digital headend upconversion system of claim 1, further comprising means for receiving the digital baseband television signal, wherein the output of said receiving means is coupled to the input of said demultiplexing means.
4. (Original) The digital headend upconversion system of claim 1, wherein said upward shifting means further comprises:
 - (i) means for upsampling a plurality of channel frequencies of a set of digital baseband television signals;
 - (ii) means for frequency upconverting outputs from said upsampling means; and

(iii) means for summing outputs of said frequency upconverting means to produce an output signal.

5. (Original) The digital headend upconversion system of claim 1, wherein said frequency adjustment system comprises:

(i) first means for upsampling a plurality of channel frequencies of a set of digital baseband television signals;

(ii) first means for frequency upconverting outputs from said upsampling means;

(iii) first means for summing outputs of said frequency upconverting means to produce a first set of output signals;

(iv) second means for upsampling a plurality of channel frequencies of a set of digital television signals contained within the first set of output signals;

(v) second means for frequency upconverting outputs from said second upsampling means;

6. (Original) The digital headend conversion system of claim 5, further comprising a final means for summing outputs of said second means of frequency upconverting outputs to produce a single output signal.

7. (Original) The digital headend conversion system of claim 5, further comprising a second means for summing outputs of said second means of frequency upconverting outputs to produce multiple output signals.

8. (Original) A digital hybrid headend upconversion system, comprising:

(a) means for upward shifting channel frequencies of a set of digital baseband television signals to produce a set of digital upconverted signals; and

(b) means for converting the digital upconverted signals to analog signals; and

(c) means for analog upward shifting the channel frequencies of the upconverted analog signals generated by said converting means.

9. (Original) The hybrid digital headend upconversion system of claim 8, further comprising means for demultiplexing the digital baseband television signal, wherein the output of said demultiplexing means is coupled to the input of said upward shifting channel frequency means.

10. (Original) The hybrid digital headend upconversion system of claim 8, further comprising means for receiving the digital baseband television signal, wherein the output of said receiving means is coupled to the input of said demultiplexing means.

11. (Original) The digital hybrid headend upconversion system of claim 8, wherein said upward shifting means further comprises:

- (i) means for upsampling a plurality of channel frequencies of a set of digital baseband television signals;
- (ii) means for frequency upconverting outputs from a said upsampling means; and
- (iii) means for summing outputs of said frequency upconverting means to produce an output signal.

12. (Original) The digital hybrid headend upconversion system of claim 8, wherein said analog upward shifting means further comprises:

- (i) first means for passing a portion of a signal within a particular frequency range for a plurality of signals, wherein said first passing means is coupled to the output of said converting means;

(ii) first means for mixing a second frequency with a first frequency for a plurality of signals, wherein said first mixing means is coupled to the output of said first passing means;

(iii) second means for passing a portion of signal within a particular frequency range for a plurality of signals, wherein said second passing means is coupled to the output of said converting means;

(iv) second means for mixing a second frequency with a first frequency for a plurality of signals, wherein said second mixing means is coupled to the output of said second passing means; and

(v) third means for passing a portion of a signal within a particular frequency range to produce an output signal, wherein said third passing means is coupled to the output of said second mixing means.